Particle size distribution in investigated profiles

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Profile | Horizon | Depth (cm) | >2 mm (%) | vcS | cS | mS | fS | vfS | cSi | fSi | Sum of sand | Sum of Silt | Clay | Texture class |
| S1 | Bw1 | 7-23 | 25 | 4 | 9 | 8 | 9 | 12 | 20 | 28 | 42 | 48 | 10 | L |
|  | Bw2 | 23-44 | 50 | 4 | 12 | 10 | 11 | 12 | 18 | 19 | 49 | 37 | 14 | L |
|  | 2BC | 44-71 | 70 | 8 | 11 | 12 | 15 | 18 | 19 | 8 | 64 | 27 | 9 | SL |
|  | 2C | 71-105 | 80 | 8 | 14 | 13 | 17 | 17 | 13 | 12 | 69 | 25 | 6 | SL |
| S2 | AEg | 0-21 | 0 | 2 | 3 | 3 | 3 | 8 | 35 | 38 | 19 | 73 | 8 | SiL |
|  | Eg | 21-40 | 0 | 0 | 0 | 1 | 1 | 16 | 24 | 40 | 18 | 64 | 18 | SiL |
|  | Btg | 40-70 | 0 | 0 | 1 | 1 | 1 | 12 | 33 | 27 | 15 | 60 | 25 | SiL |
|  | 2Btg | 70-110 | 40 | 5 | 10 | 19 | 24 | 12 | 6 | 6 | 70 | 12 | 18 | SL |
|  | 3Btg | 110-139 | 5 | 1 | 1 | 2 | 9 | 14 | 26 | 21 | 27 | 47 | 26 | L |
|  | 4BC | 139-160 | 5 | 0 | 0 | 2 | 47 | 27 | 8 | 4 | 76 | 12 | 12 | SL |
|  | 5BC | 160-180 | 40 | 0 | 1 | 4 | 12 | 15 | 22 | 21 | 32 | 43 | 25 | L |
|  | 6BC | 180-200 | 15 | 5 | 8 | 10 | 9 | 12 | 18 | 20 | 44 | 38 | 18 | L |
|  | 7CR | 200+ | 85 | 15 | 31 | 21 | 15 | 7 | 3 | 4 | 89 | 7 | 4 | S |
| S3 | A | 0-20 | 2 | 2 | 7 | 7 | 7 | 10 | 33 | 30 | 33 | 63 | 4 | SiL |
|  | AEg | 20-40 | 0 | 1 | 3 | 3 | 4 | 11 | 31 | 37 | 22 | 68 | 10 | SiL |
|  | Eg/Btg | 40-70 | 0 | 0 | 0 | 0 | 1 | 9 | 26 | 38 | 10 | 64 | 26 | SiL |
|  | Btg/Eg | 70-100 | 0 | 0 | 0 | 0 | 1 | 10 | 25 | 39 | 11 | 64 | 25 | SiL |
|  | BCg | 100-130 | 0 | 0 | 0 | 1 | 3 | 12 | 39 | 30 | 16 | 69 | 15 | SiL |
|  | C1g | 130-150 | 0 | 1 | 1 | 1 | 2 | 19 | 27 | 33 | 24 | 60 | 16 | SiL |
|  | C2g | 150-190 | 0 | 1 | 1 | 1 | 3 | 17 | 31 | 29 | 23 | 60 | 17 | SiL |
|  | C3 | 190+ | 0 | 0 | 1 | 3 | 8 | 8 | 47 | 27 | 20 | 74 | 6 | SiL |
| S4 | Ah | 0-3 | 5 | 3 | 3 | 8 | 9 | 10 | 39 | 22 | 33 | 61 | 6 | SiL |
|  | ABw | 3-8 | 10 | 1 | 2 | 4 | 4 | 10 | 40 | 33 | 21 | 73 | 6 | SiL |
|  | Bw1 | 8-50 | 10 | 1 | 2 | 3 | 5 | 8 | 34 | 35 | 19 | 69 | 12 | SiL |
|  | 2Bt | 50-70 | 40 | 2 | 2 | 3 | 4 | 7 | 35 | 34 | 18 | 69 | 13 | SiL |
|  | 2BC | 70-110 | 60 | 4 | 3 | 5 | 5 | 9 | 32 | 30 | 26 | 62 | 12 | SiL |
|  | 3BC | 110-130 | 70 | 21 | 17 | 16 | 12 | 9 | 7 | 10 | 75 | 17 | 8 | SL |
|  | 3CR | 130-140 | 85 | 32 | 15 | 10 | 9 | 6 | 8 | 15 | 72 | 23 | 5 | SL |

Table 3. Particle size distribution in investigated profiles - continuation

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Profile | Horizon | Depth (cm) | >2 mm (%) | vcS | cS | mS | fS | vfS | cSi | fSi | Sum of sand | Sum of Silt | C | Texture class |
| S5 | AE | 0-20 | 5 | 1 | 2 | 4 | 4 | 13 | 30 | 38 | 24 | 68 | 8 | SiL |
|  | EB | 20-36 | 20 | 1 | 3 | 6 | 8 | 11 | 27 | 25 | 29 | 52 | 19 | SiL |
|  | 2Btg1 | 36-64 | 70 | 3 | 8 | 8 | 13 | 8 | 10 | 24 | 40 | 34 | 26 | L |
|  | 2Btg2 | 64-81 | 70 | 5 | 14 | 20 | 19 | 5 | 7 | 12 | 63 | 19 | 18 | SL |
|  | 2BC | 81-105 | 60 | 7 | 14 | 11 | 12 | 7 | 5 | 19 | 51 | 24 | 25 | SCL |
| P6 | Ah | 0-3 | 0 | 2 | 3 | 3 | 2 | 16 | 39 | 28 | 26 | 67 | 7 | SiL |
|  | ABw | 3-9 | 0 | 2 | 2 | 2 | 3 | 8 | 42 | 34 | 17 | 76 | 7 | SiL |
|  | Bw | 9-21 | 0 | 5 | 4 | 4 | 4 | 10 | 31 | 33 | 27 | 64 | 9 | SiL |
|  | Bt | 21-35 | 10 | 3 | 2 | 3 | 4 | 8 | 27 | 35 | 20 | 62 | 18 | SiL |
|  | 2Bt | 35-80 | 50 | 5 | 3 | 3 | 3 | 4 | 10 | 23 | 18 | 33 | 49 | C |
|  | 2BtC | 80-120 | 60 | 3 | 6 | 7 | 7 | 7 | 8 | 30 | 30 | 38 | 32 | CL |
|  | 3BC | 120-160 | 80 | 3 | 5 | 5 | 7 | 8 | 16 | 40 | 28 | 56 | 16 | SiL |
|  | 3C | 160-200 | 90 | 3 | 5 | 6 | 8 | 6 | 22 | 32 | 28 | 54 | 18 | SiL |
| P7 | AE | 4-14 | 0 | 0 | 1 | 2 | 2 | 14 | 36 | 36 | 19 | 72 | 9 | SiL |
|  | E | 14-19 | 0 | 1 | 2 | 2 | 2 | 15 | 34 | 33 | 22 | 67 | 11 | SiL |
|  | EB | 19-33 | 0 | 1 | 2 | 1 | 1 | 17 | 26 | 27 | 22 | 53 | 25 | SiL |
|  | 2Bt1 | 33-45 | 40 | 0 | 1 | 3 | 4 | 10 | 25 | 29 | 18 | 54 | 28 | SiCL |
|  | 2Bt2 | 45-68 | 50 | 0 | 1 | 4 | 4 | 10 | 25 | 28 | 19 | 53 | 28 | SiCL |
|  | 3BC | 68-86 | 60 | 0 | 1 | 3 | 5 | 22 | 15 | 25 | 31 | 40 | 29 | CL |
| P8 | Apg | 0-33 | 0 | 0 | 1 | 1 | 2 | 8 | 19 | 47 | 12 | 66 | 22 | SiL |
|  | AEg | 33-49 | 0 | 0 | 1 | 1 | 2 | 10 | 23 | 45 | 14 | 68 | 18 | SiL |
|  | Etg1 | 49-70 | 0 | 0 | 1 | 2 | 3 | 9 | 28 | 35 | 15 | 63 | 22 | SiL |
|  | Etg2 | 70-78 | 0 | 3 | 17 | 27 | 17 | 6 | 8 | 16 | 70 | 24 | 6 | SL |
|  | Etg3 | 78-105 | 0 | 0 | 1 | 1 | 2 | 5 | 26 | 53 | 9 | 79 | 12 | SiL |
|  | Btg1 | 105-128 | 10 | 1 | 1 | 2 | 4 | 13 | 38 | 29 | 21 | 67 | 12 | SiL |
|  | Btg2 | 128-141 | 10 | 1 | 2 | 7 | 3 | 11 | 26 | 40 | 24 | 66 | 10 | SiL |
|  | Btg3 | 141-150 | 20 | 6 | 12 | 15 | 10 | 13 | 15 | 18 | 56 | 33 | 11 | SL |
|  | BtCg | 160-173 | 0 | 1 | 2 | 5 | 7 | 12 | 33 | 29 | 27 | 62 | 11 | SiL |
|  | BCg | 173-200 | 0 | 1 | 1 | 2 | 3 | 10 | 31 | 36 | 17 | 67 | 16 | SiL |

Explanation: vcS – very coarse sand, cS – coarse sand, mS – medium sand, fS – fine sand, vfS – very fine sand, cSi – coarse silt, fSi – fine silt; texture classes: S ­– sand, SL – sandy loam, L – loam, SiL – silt loam, SCL – sandy clay loam, CL – clay loam, C – clay.